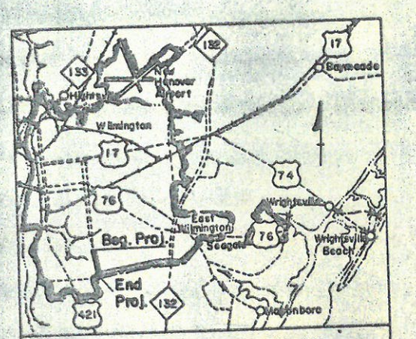
SEE SHEET NO. 1-A FOR INDEX OF SHEETS



SHIPPING POINTS IN VICINITY OF STATE PROJECT 8.2335401

STATE OF NORTH CAROLINA
BOARD OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

RECEIVED
OCT 18 1976

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N. C.	8.2335401	1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
9.6033281		P.E.
8.2335401	M-5843 (001)	R/W, UTIL. & CONST.

NEW HANOVER COUNTY

LOCATION: 16TH & 17TH STREET FROM MEDICAL CENTER DR. TO SHIPYARD BLVD. IN WILMINGTON.

TYPE: GRADING, DRAINAGE, PAVING AND RESURFACING

LENGTH ROADWAY F. A. PROJ. M-5843(001) = 0.809 MI.
TOTAL LENGTH STATE PROJ. 8.2335401 = 0.809 MI.

GRAPHIC SCALES

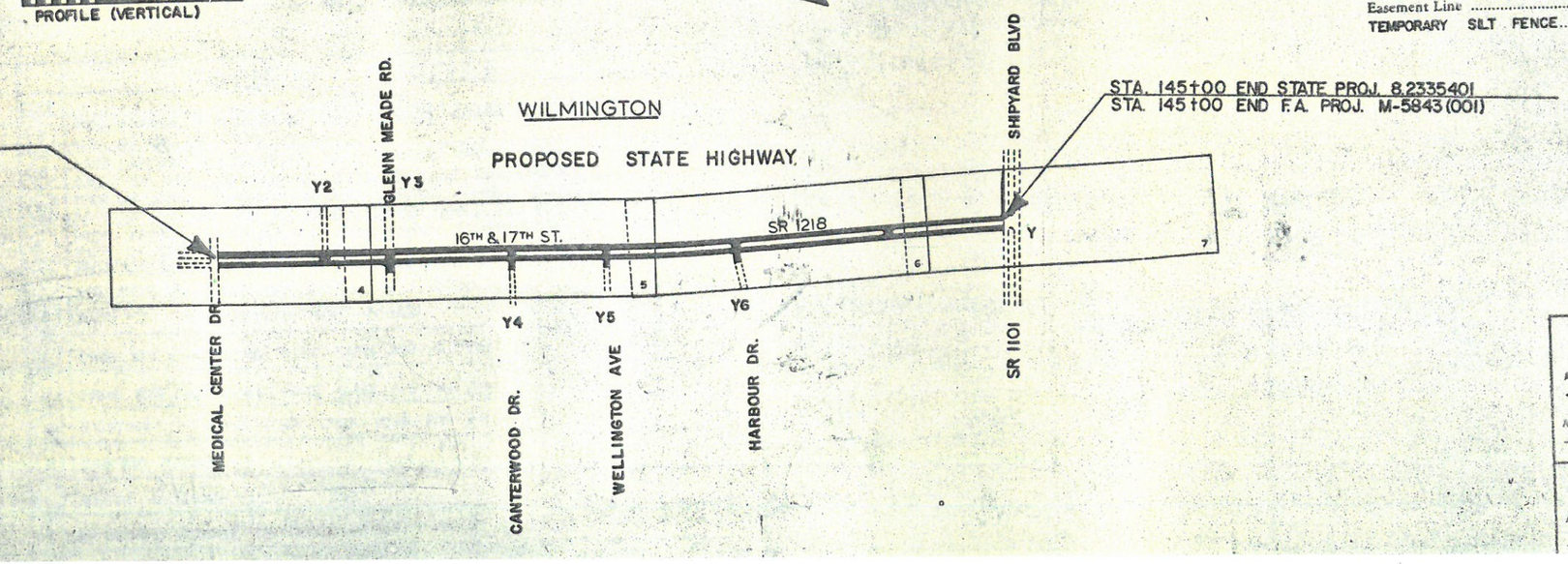
0' 50' 100' 150'
PLANS
0' 50' 100' 150'
PROFILE (HORIZONTAL)
0' 10' 20' 30'
PROFILE (VERTICAL)

DESIGN DATA

1975 ADT	9,900 - 11,000
1995 ADT	17,500 - 19,800
DHV	10%
D	60%
T	6%
V	50MPH

CONVENTIONAL SIGNS

- County Line
- City or Town Line
- Exist. Right of Way Line
- Right of Way Line
- Survey Line
- Property Line
- Exist. Fence
- Proposed Road
- Existing Road
- Railroad
- Control of Access Line
- Slope Stake Line
- Bridge
- Culvert
- Woods
- Telephone or Telegraph Pole (EXISTING) (PROPOSED)
- Tower Pole and Line
- Power Pole (EXISTING) (PROPOSED)
- Proposed Right of Way Marker
- Existing Right of Way Marker
- Guard Rail
- Sanitary Sewer Line SS
- Water Line
- Gas Line GAS
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Easement Line E
- TEMPORARY SILT FENCE



PREPARED IN OFFICE OF
DEPARTMENT OF TRANSPORTATION
AND HIGHWAY SAFETY
DIVISION OF HIGHWAYS
RALEIGH, N.C.

PROJ. ENGINEER : J. T. PEACOCK
PLANS PREPARED BY: J. R. TRIVETTE

NORTH CAROLINA REGISTERED SEAL 3653 ENGINEER GEORGE E. WELLS

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
APPROVED: George E. Wells P.E.
MANAGER - HIGHWAY DESIGN BRANCH
APPROVED:
CHIEF ENGINEER - OPERATIONS

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED: 9/15/76
DIVISION ADMINISTRATOR DATE

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
8.2335401	6	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
8.2335401	M-5843 (001)	

PI = 125+53.06
Δ = 2°-48' LT
D = 0°-30'-04"
T = 279.40'
L = 358.76'
R = 11,432.156'
NORMAL CROWN

WAVERLY DEVELOPMENT CORP.
DB 839 PG 344-6

WILMINGTON, N. C.

WAVERLY DEVELOPMENT CORP.
CITY OF WILMINGTON
DB 722 PG 432

GREENLAWN MEMORIAL PARKS, INC
DB 664 PG 538
DB 752 PG 399
DB 490 PG 165

L. R. ARMSTRONG
DB 626 PG 482 ③

J. R. REAVES ④
DB 848 PG 32

J. R. REAVES ④

1 S BK BUS

10+00 -Y6- P.O.T. = 130+73.98 -L- P.O.T.

12+50 -Y7- P.O.T. = 136+36.03 -L- P.O.T.

10+00 P.O.T. Y7

P.I. N.C. 11+01.63
Δ = 8°51'40" LT.

STA. 12+00 -Y6-
END CONST.

13+00 P.O.T. Y6

END CONST.

P.I. 125+53.06

P.I. 129+00
EL. 48.9'
300' VC

P.I. 132+50
EL. 55.07
300' VC
e = 0.52

P.I. 135+50
EL. 56.09
300' VC

+0.45%
+1.745%
+0.34%
+0.966%

BM ELEV. 50.74
RR SPIKE IN BASE 8" PINE
90' LT -L- STA 128+73

BM ELEV. 55.24
RR SPIKE IN BASE 8" PINE
92' LT -L- STA 135+35

ADT 1974
ADT 1995
IN HUNDREDS
102 / 179
99 / 175

LINE -L-
-L- NBL
-L- SBL
200' TAPER
200' FULL
PROP. 1.5' CONC. C&G
EXIST. R/W
FUTURE STREET
LYNNWOOD DR.
16TH & 17TH STREET
SR 1218
HARBOUR DR.
36' BST
24' BST
4' BST SHOULDER
4' PAVED SHOULDER
136"-18" RCP
112'-24" RCP
18" RCP
15" RCP
20" WATER
FES
PLUG
R/W MON
BRICK COLUMN
WOODS
DEEP
300' TAPER

LATERAL "V" DITCH REQ'D. FROM STA. 137+00 TO STA 139+50 RT. SIDE. SEE SHEET NO. 8A FOR DETAIL.

DENOTES REMOVAL OF EXISTING PAVEMENT

DENOTES PROP. 4' PAVED SHOULDER

DENOTES EXIST. 4' PAVED SHOULDER TO BE RESURFACED

DENOTES PROP. GRASS ISLAND WITH 1'-6" CONC. CURB AND GUTTER. SEE SHEET NO. 2 FOR DETAIL.

INCLUDED IN SUB-TOTAL # 2

UNCL. EXCAV.	=	33 C.Y.
EMBT. 1 70	=	27 C.Y.
WASTE	=	24 C.Y.

USE TYPICAL SECTION NO. 3

EARTHWORK SUMMARY SUBTOTAL NO. 5
STA. 125+00 -L- TO STA. 145+00 -L-
(INCLUDES -Y5- & -Y6-)

EMBT. 1 70	=	7,441 C.Y.
UNCL. EXCAV.	=	3,558 C.Y.
BORROW		3,883 C.Y.

EARTHWORK SUMMARY
STATION

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
8.2335401	7	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
8.2335401	M-5843 (001)	

3- CENTERED CURVE DATA

Δ = 96°	Δ = 84°
D = 5°	D = 5°
Y = 7.5'	Y = 7.5'
T_2 = 45.5'	T_2 = 33.9'
T_1 = 61.1'	T_1 = 49.5'
T = 92.3'	T = 80.8'

STA 9+89 -Y-
BEG. CONST. & RESURF.

MATCH LINE STA. 13+00

WAVERLY DEVELOPMENT CORP
DB 839 PG 344-6

WOODS

S13°-01'E

16TH & 17TH STREET — EXIST R/W — SR 1218

12" BST SHOULDER — 20" WATER — 148' DEEP

-L- NBL

200' TAPER

4' BST SHOULDER — 400' FULL

300' TAPER — ℄ SBL

4' PAVED SHOULDER

EXIST R/W

GREENLAWN MEMORIAL PARK, INC.
DB 664 PG 538
DB 752 PG 399
DB 490 PG 165

WILMINGTON, N. C.

DENOTES EXIST. 4' PAVED SHOULDER TO BE RESURFACED

DENOTES PROP. 4' PAVED SHOULDER

24' BST REM.

PROP 1.5' CONC. C&G

CONC. ISLAND

RETAIN COLLAR

56-18 RCP

150' R

270' FULL

EXIST R/W

SR 1101

SOIL MED.

EXIST R/W

SHIPYARD BLVD.

-L- POT 145+21.65 = -Y- POT 15+00
END LINE -L-

STA. 145+00 END STATE PROJ. 8.2335401
STA. 145+00 END F.A. PROJ. M-5843 (001)

ADT 1974
ADT 1993
IN HUNDREDS

STA 161+60 -Y-
END RESURF.

S81°-06'-20"W

Y POT 10+00.00

150' TAPER

270' FULL

24' BST

19" RCP

SOIL MED.

EXIST R/W

MATCH LINE STA. 13+00

REMOVAL OF EXISTING PAVEMENT

STA.	TO STA.	LENGTH	AVG. WIDTH	SQ. YDS.
102+42 -L-	106+00 -L-	PLANIMETER		279
102+42 -L-	110+00 -L-	PLANIMETER		2,445
110+00 -L-	111+25 -L-	125	28	389
13+12 -Y3-	13+80 -Y3-	PLANIMETER		420
111+95 -L-	114+00 -L-	205	25	570
114+00 -L-	117+88 -L-	388	14	604
10+12 -Y4-	10+67 -Y4-	PLANIMETER		249
118+64 -L-	123+00 -L-	436	5	242
10+12 -Y5-	10+67 -Y5-	PLANIMETER		285
125+75 -L-	130+50 -L-	675	4	300
10+12 -Y6-	11+50 -Y6-	188	56	352
131+00 -L-	142+50 -L-	1,150	4	511
142+50 -L-	145+10 -L-	PLANIMETER		717
			TOTAL	7,563
			SAY	7,600

DENOTES REMOVAL OF EXISTING PAVEMENT

DENOTES PROP GRASS ISLAND WITH 1'-6" CONC. CURB AND GUTTER. SEE SHEET NO. 2 FOR DETAIL.

BM ELEV 56.96
RR SPIKE IN BASE 8" PINE
113' RT -L- STA 144+13

BM ELEV 59.57
FLAT SURFACE OF 4"x4" GRAVE MARKER (133-4-BP)
53' RT OF -Y- STA. 19+37

USE TYPICAL SECTION NO. 2

P.I. 144+50
EL. 54.25
VC 100'
e 0.31

+0.46670

-1.548%

+0.66289%

P.I. 140+75
EL. 64.16
VC 500'

STA 143+00
ELEV 54.56

-Y-

INCLUDED IN SUB-TOTAL # 2

UNCL. EXCAV.	=	449 C.Y.
EMB'T. x 70	=	0 C.Y.
WASTE	=	449 C.Y.

LINE -Y-

USE TYPICAL SECTION NO. 4

9+89

16+62